1	Claims
2	
3	1. Apparatus for connecting to a subsea wellbore,
4	the wellbore having a manifold and a choke body, the
5	apparatus comprising:
6	a frame adapted to land on the manifold;
7	a conduit system having a first end for
8	connection to the choke body and a second end for
9	connection to a processing apparatus;
10	wherein the conduit system comprises a conduit
11	means supported by the frame;
12	wherein the frame comprises at least one frame
13	member that is adapted to land on the manifold in a
14	first stage of the connection and wherein the
15	conduit means is adapted to be brought into fluid
16	communication with the choke body in a second stage
17	of the connection.
18	
19	2. Apparatus as claimed in claim 1, further
20	comprising an actuating means mounted on the frame,
21	the actuating means being adapted to bring the
22	conduit means into fluid communication with the
23	choke body.
24	
25	3. Apparatus as claimed in claim 2, wherein the
26	actuating means comprises at least one hydraulic
27	cylinder.
28	
29	4. Apparatus as claimed in any preceding claim,
30	wherein the conduit means comprises a flexible
31	conduit.

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1 5. Apparatus as claimed in claim 4, wherein the

2 flexible conduit is arranged to buffer the

3 connection of the conduit means and the choke body.

4

5 6. Apparatus as claimed in claim 4 or claim 5

6 wherein the flexible conduit has an end that is

fixed relative to the frame and an opposite end that

8 is moveable relative to the frame.

9

10 7. Apparatus as claimed in any of claims 4 to 6

11 when dependent on claim 2, wherein the actuating

12 means is adapted to move the movable end of the

13 flexible conduit relative to the frame to bring it

into fluid communication with the choke body.

15

16 8. Apparatus as claimed in claim 7, wherein the

17 actuation means comprises at least one swivel device

18 that allows movement of the end of the flexible

19 conduit in more than one dimension.

20

21 '9. Apparatus as claimed in any of claims 4 to 8,

22 wherein the flexible conduit is resilient.

23

24 10. Apparatus as claimed in claim 9, wherein the

25 flexible conduit is curved to provide resilience.

26

27 11. Apparatus as claimed in claim 10, wherein the

direction of movement of the flexible conduit in the

29 second stage of the connection defines an axis of

30 connection and wherein the curvature is in a plane

31 perpendicular to the axis of connection to provide

32 resilience in the connection direction.

46

1 2 Apparatus as claimed in any of claims 4 to 11, wherein the conduit means comprises two flexible 3 4 conduits. 5 6 Apparatus as claimed in claim 12, wherein each of the two conduits is fixed at a respective end 7 thereof relative to the frame and wherein each of 8 the two conduits has a respective opposite end that 9 is moveable relative to the frame. 10 11 12 Apparatus as claimed in any preceding claim, wherein the conduit system further comprises a 13 secondary conduit that is connected to the interior 14 of the choke body and wherein the conduit means is 15 adapted to connect to the secondary conduit in the 16 17 second stage of the connection to connect the conduit means to the choke body via the secondary 18 19 conduit. 20 21 Apparatus as claimed in claim 2 or claim 3, wherein the frame comprises a lower frame member and 22 an upper frame member, the conduit means being 23 24 mounted on the upper frame member, and wherein the 25 actuating means is mounted between the lower and 26 upper frame members and is adapted to move the upper 27 frame member relative to the lower frame member to 28 bring the conduit means into fluid communication 29 with the choke body.

47 1 Apparatus as claimed in claim 15, wherein the 2 actuating means is adapted to buffer the connection 3 between the conduit means and the choke body. 4 5 Apparatus as claimed in claim 1, wherein the at 6 least one frame member of the first connection stage comprises a lower frame member, and wherein the 7 apparatus further comprises an upper frame member, 8 9 the upper frame member and the lower frame member 10 having co-operating engagement means for landing the upper frame member on the lower frame member. 11 12 13 Apparatus as claimed in claim 17, further 18. 14 comprising buffering means provided on the frame, the buffering means defining a minimum distance 15 between the frame and the tree. 16 17 18 19. Apparatus as claimed in claim 18, wherein a 19 further buffering means is provided between the 20 lower and upper frame members to define a minimum 21 distance between the lower and upper frame members.

22

23 20. Apparatus as claimed in claim 18 or 19, wherein the buffering means comprises adjustable stops.

25

26 21. Apparatus as claimed in claim 20, wherein the buffering means comprises threaded bolts.

28

22. Apparatus as claimed in any of claims 17 to 21, 30 wherein the conduit system comprises a secondary 31 conduit that is connected to the choke body and 32 wherein the conduit means is adapted to connect to

48 1 the secondary conduit in the second stage of the 2 connection to connect the conduit means to the choke body via the secondary conduit. 3 4 5 Apparatus as claimed in claim 22, wherein the secondary conduit is supported on the lower frame 6 7 . member. 9 Apparatus as claimed in any preceding claim, 10 wherein the conduit system provides a single 11 flowpath between the choke body and the processing 12 apparatus. 13 14 Apparatus as claimed in any of claims 1 to 23, 15 wherein the conduit system provides a first flowpath 16 from the choke body to the processing apparatus and 17 a second flowpath from the processing apparatus to 18 the choke body. 19 20 Apparatus as claimed in claim 25, wherein the 21 conduit system comprises a housing and an inner 22 hollow cylindrical member, the inner cylindrical 23 member being adapted to seal within the choke body 24 to define a first flow region through the bore of 25 the cylindrical member and a second separate flow 26 region in the annulus between the cylindrical member 27 and the housing. 28 29 27. Apparatus as claimed in claim 26, wherein the 30 first and second flow regions are adapted to connect 31 to a respective inlet and an outlet of the

32 processing apparatus.

1	
2	28. Apparatus as claimed in any preceding claim,
3	wherein the processing apparatus is provided on the
4	frame.
5	
6	29. Apparatus as claimed in any of claims 1 to 27,
7	wherein the processing apparatus is provided on a
8	separate subsea structure.
9	
10	30. Apparatus as claimed in any preceding claim,
11	wherein the processing apparatus comprises at least
12	one of: a pump; a process fluid turbine; injection
13	apparatus; chemical injection apparatus; a fluid
14 .	riser; measurement apparatus; temperature
15	measurement apparatus; flow rate measurement
16	apparatus; constitution measurement apparatus;
17	consistency measurement apparatus; gas separation
18	apparatus; water separation apparatus; solids
19	separation apparatus; and hydrocarbon separation
20	apparatus.
21	
22	31. Apparatus as claimed in any preceding claim,
23	wherein the frame includes guide means that co-
24	operate with guide means provided on the manifold,
25	to align the frame with the manifold.
26	
27	32. Apparatus as claimed in any preceding claim,
28	wherein a replacement choke is provided on the
29	frame, the replacement choke being connectable to
30	the conduit system.

50 1 A method of connecting a processing apparatus to a subsea wellbore, the wellbore having a manifold 2 and a choke body, the method comprising: 3 4 landing a frame on the manifold and connecting a conduit system between the choke body and the 5 processing apparatus, the frame supporting a conduit 6 7 means of the conduit system; 8 wherein the frame comprises at least one frame member that is landed on the manifold in a first 9 10 connection stage, and wherein the conduit means is brought into fluid communication with the choke body 11 12 in a second connection stage. 13 14 A method as claimed in claim 33, wherein actuating means are mounted on the frame, and 15 wherein the method includes the step of actuating 16 the actuating means to bring the conduit means into 17 fluid communication with the choke body. 18 19 20 A method as claimed in claim 34, wherein the conduit means comprises a flexible conduit, one end 21 of which is moveable relative to the frame, and 22 wherein the method includes actuating the actuating 23 24 means to move the end of the flexible portion 25 relative to the frame to bring it into fluid 26 communication with the choke body. 27 28 A method as claimed in any of claims 33 to 35, wherein the conduit system further comprises a 29

wherein the conduit system further comprises a secondary conduit that is connected to the choke body and wherein the method includes the step of

1	connecting the conduit means to the secondary
2	conduit in the second stage of the connection.
3	
4	37. A method as claimed in claim 33 or claim 34,
5	wherein the frame comprises a lower frame member and
6	an upper frame member, the conduit means being
7	supported on the upper frame member, wherein the
8	actuating means is mounted between the lower and
9	upper frame members, and wherein the method includes
10	the step of actuating the actuation means to move
11	the upper frame member relative to the lower frame
12	member to bring the conduit means into fluid
13	communication with the choke body.
14	
15	38. A method as claimed in claim 33, wherein the at
16	least one frame member of the first connection stage
17	comprises a lower frame member, and wherein the
18	apparatus further comprises an upper frame member,
19	and wherein the method includes the step of landing
20	the upper frame member on the lower frame member.
21	
22	39. A method as claimed in claim 38, further
23	including the step of buffering the connection
24	between the choke body and the conduit means.
25	
26	40. A method as claimed in claim 39, wherein stop
27	means are provided on the lower frame member, and
28	the connection is buffered by adjusting the stop
29	means to define a minimum distance between the
30	manifold and the lower frame member.
31	

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- 1 41. A method as claimed in claim 39 or claim 40,
- 2 including the further step of buffering the
- 3 connection between the lower and upper frame members
- 4 by providing stop means between the lower and upper
- frame members, the connection being buffered by
- 6 adjusting the stop means to define a minimum
- 7 distance between the upper and the lower frame
- 8 members.

9

- 10 42. A method as claimed in any of claims 38 to 41,
- 11 wherein the conduit system comprises a secondary
- 12 conduit that is connected to the choke body and
- wherein the method includes the step of connecting
- 14 the conduit means to the secondary conduit in the
- 15 second stage of the connection.

16

- 17 43. A method as claimed in claim 42, wherein the
- 18 method includes the initial steps of removing the
- 19 choke bonnet and connecting the secondary conduit to
- 20 interior of the choke body.

21

- 22 44. A method as claimed in claim 43, wherein the
- 23 choke bonnet is removed and the secondary conduit is
- 24 installed by choke bonnet changing equipment.

25

- 26 45. A method as claimed in claim 43, wherein the
- 27 secondary conduit is supported on the lower frame
- 28 member.

- 30 46. A method as claimed in any of claims 33 to 45,
- 31 wherein the conduit system provides a first flowpath
- 32 from the choke body to the processing apparatus and

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1 a second flowpath from the processing apparatus to 2 the choke body and wherein the method includes the 3 step of connecting the first and second flow regions to a respective inlet and an outlet of the 5 processing apparatus. 6 7 47. A method as claimed in any of claims 33 to 46, 8 wherein the processing apparatus is provided on the frame, and wherein the method includes the step of 9 10 connecting the conduit means to the processing 11 apparatus before landing the frame on the manifold. 12 13 A method as claimed in any of claims 33 to 46. wherein the processing apparatus is provided on a 14 15 separate subsea structure and the method includes 16 the step of connecting the conduit means to the 17 processing apparatus after landing the frame on the 18 manifold. 19 20 A method as claimed in any of claims 33 to 48, 21 wherein the method includes the step of connecting a 22 replacement choke with the conduit system so that 23 fluids flowing through the conduit system also flow . 24 through the replacement choke. 25 26 Apparatus for connecting to a subsea wellbore, 27 the wellbore having a manifold and a choke body, the 28 apparatus comprising: 29 a frame having a conduit system, the frame 30 being adapted to land on the tree, the conduit 31 system including a first end which is adapted to

connect to the choke body such that the conduit is

1	in fluid communication with the interior of the
2	choke body, and a second end connectable to a
3	processing apparatus;
4	wherein the frame comprises buffering means
5	adapted to buffer the connection between the first
6	end of the conduit system and the choke body.
7	in the state of th
8	51. Apparatus for connecting to a subsea wellbore,
9	the wellbore having a manifold and a choke body, the
10	apparatus comprising:
11	a frame adapted to land on the manifold;
12	a conduit system having a first end for
13	connection to the choke body and a second end for
14	connection to a processing apparatus;
15	wherein at least a part of the conduit system
16	is supported by the frame;
17	wherein the conduit system comprises at least
18	one flexible conduit having an end that is moveable
19	relative to the frame to make up a communication
20	between the processing apparatus and the choke body.
21	5 11 One office body.
22	